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Taiwanese Patent Application No. 90120107
Publication No. 505781
Patent No. 165596

Title: Bearing vibration diagnostic apparatus

Abstract

A diagnostic apparatus for diagnosing abnormal vibration of a bearing provided for a rotary shaft of a roller, such as one of a series of table rollers, even in a place with no facilities of external power supply is disclosed. The diagnostic apparatus includes a vibration detector that detects vibration of a bearing; a computing unit that executes computation based on data detected by the vibration detector and received as an input signal; a monitoring device that provides a vibration status of the bearing based on an output signal from the computing unit; a generator that generates electric power by utilizing rotary motion of the rotary shaft as a motive power source; and a motive power transmitting device that transmits the rotary motion of the rotary shaft to the generator. The generated electric power is supplied to the vibration detector, the computing unit and the monitoring device. Methods of detecting vibration of bearings are also disclosed.